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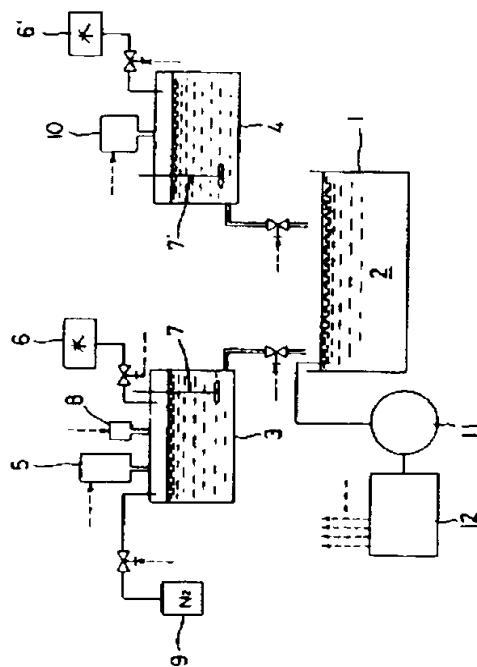
APPLICATION DATE : 31-07-85
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APPLICANT : SUMITOMO METAL IND LTD;

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TITLE : METHOD AND APPARATUS FOR
 REPLENISHING METALLIC
 COMPONENT TO PLATING BATH



ABSTRACT : PURPOSE: To maintain the specified concn. of Sn^{2+} in an aq. SnSO_4 soln. for a long period of time by replenishing FeSO_4 to a replenishing tank contg. the aq. SnSO_4 for replenishing Sn^{2+} to a bronze plating bath or filling an inert gas therein.

CONSTITUTION: Sn^{2+} ions and Cu^{2+} ions are replenished from replenishing tanks 3, 4 into the plating bath 2 consisting of a sulfuric acid bath in a bronze plating tank 1 to execute bronze plating. SnSO_4 powder 5 and water 6 are supplied to the tank 3 and are stored therein the form of the aq. SnSO_4 soln. in the above-mentioned method. The aq. SnSO_4 soln. is continuously or intermittently replenished to the plating bath 2 while the FeSO_4 powder is continuously or intermittently replenished to the sq. SnSO_4 soln. from an adding device 8 or while the inert gas such as N_2 supplied from an inert gas supply device 9 is filled into the tank 3. The oxidation of SnSO_4 during the storage is thereby prevented and the specified concn. thereof is maintained, by which the stable plating is made possible.

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